FIG. 1
(PRIOR ART)

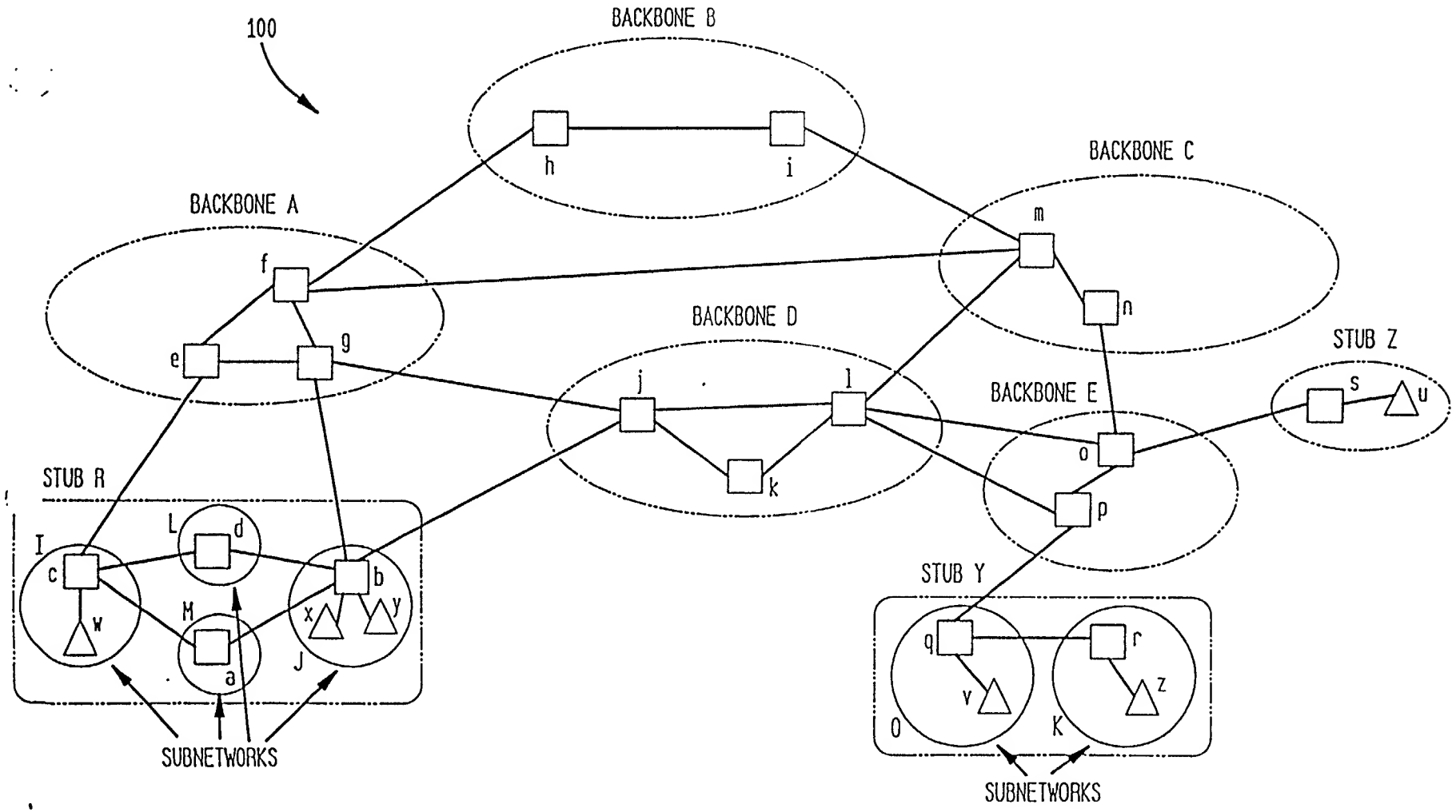


FIG. 2
(PRIOR ART)

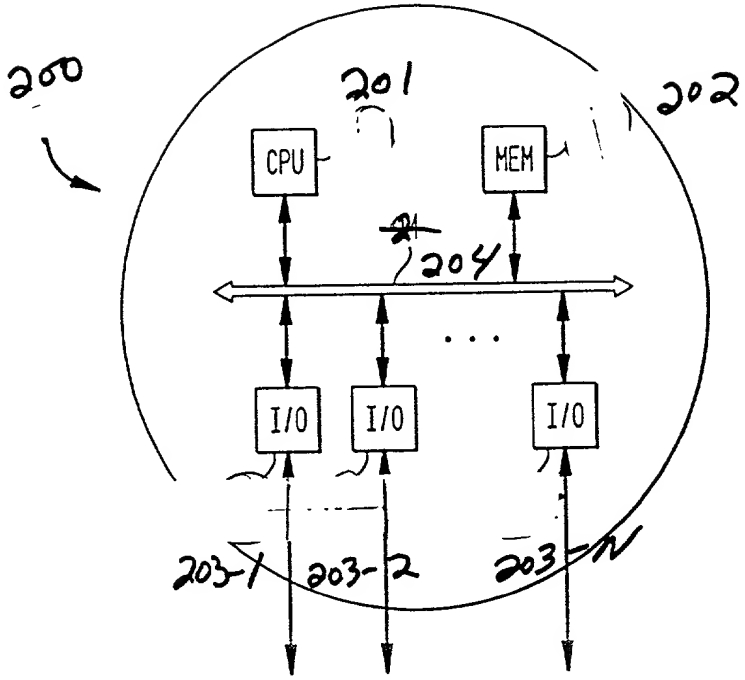


FIG. 3A
(PRIOR ART)

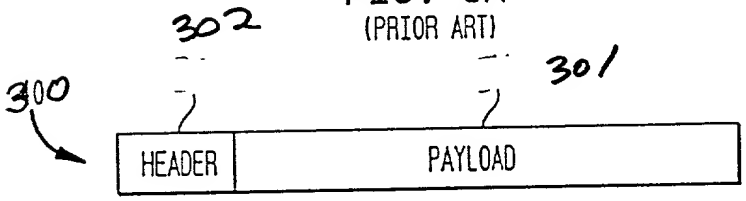


FIG. 3C
(PRIOR ART)

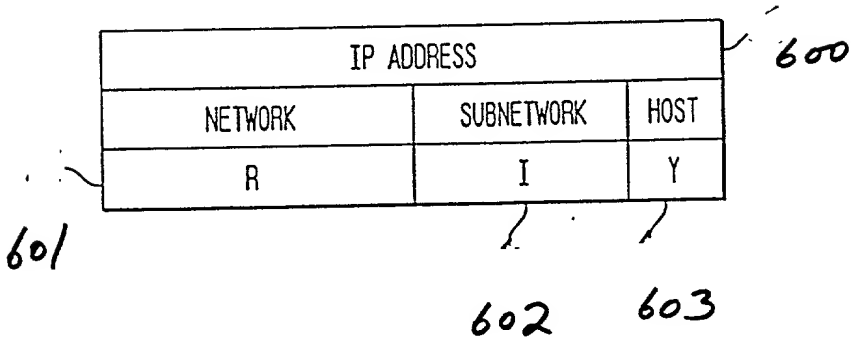
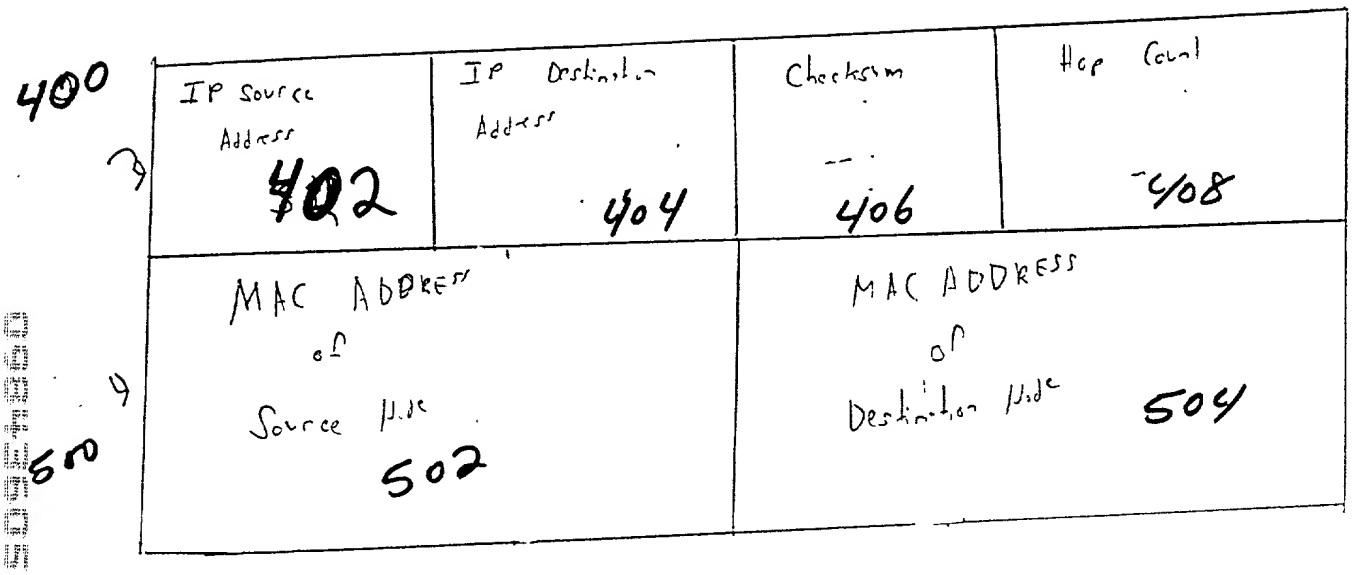


FIG 3b. (Prior Art)



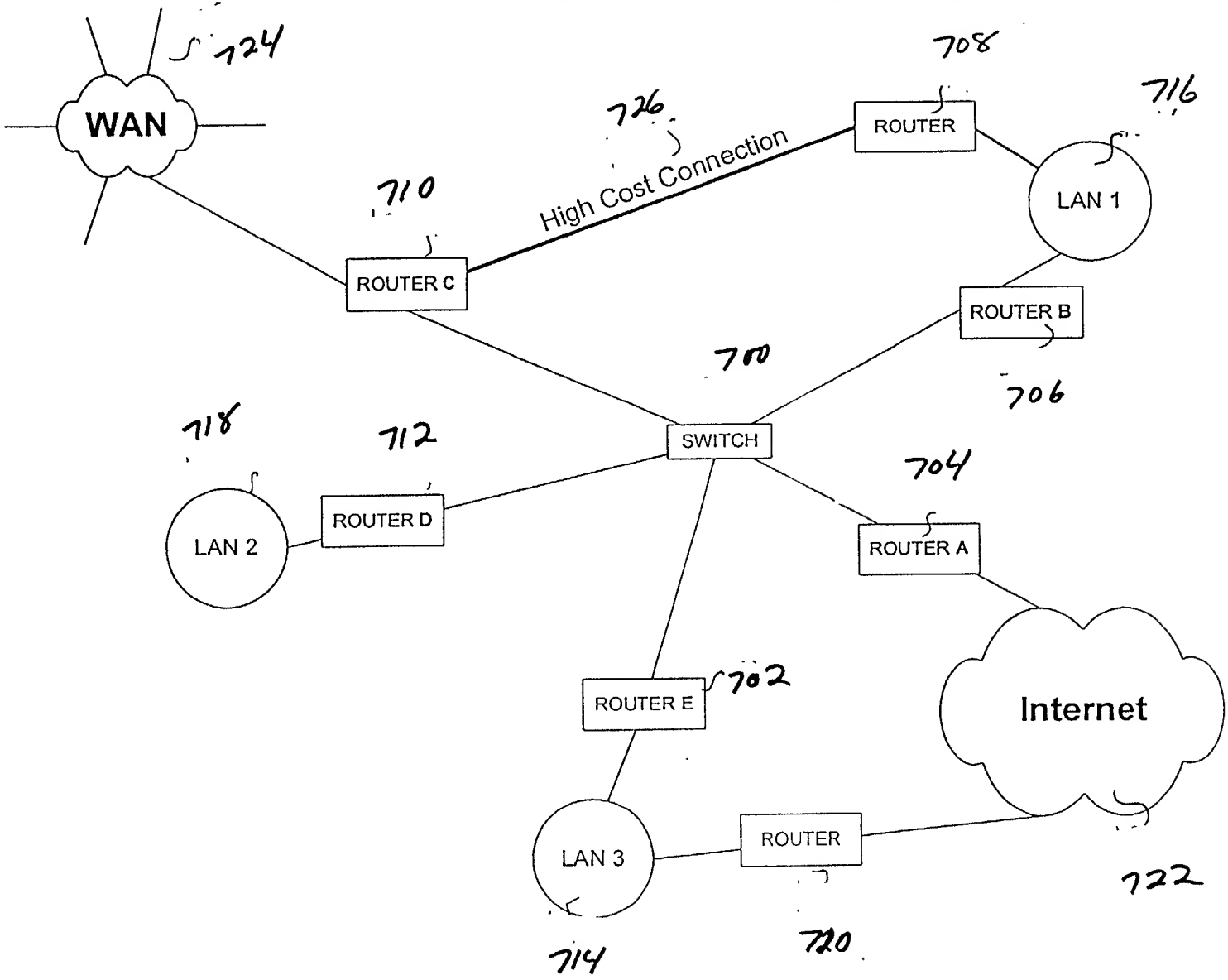

WAN
724
726
High Cost Connection
708
ROUTER
716
LAN 1
710
ROUTER C
ROUTER B
700
706
718
712
SWITCH
704
LAN 2
ROUTER D
ROUTER A
ROUTER E
702
Internet
LAN 3
ROUTER
722
714
720

Fig. 4

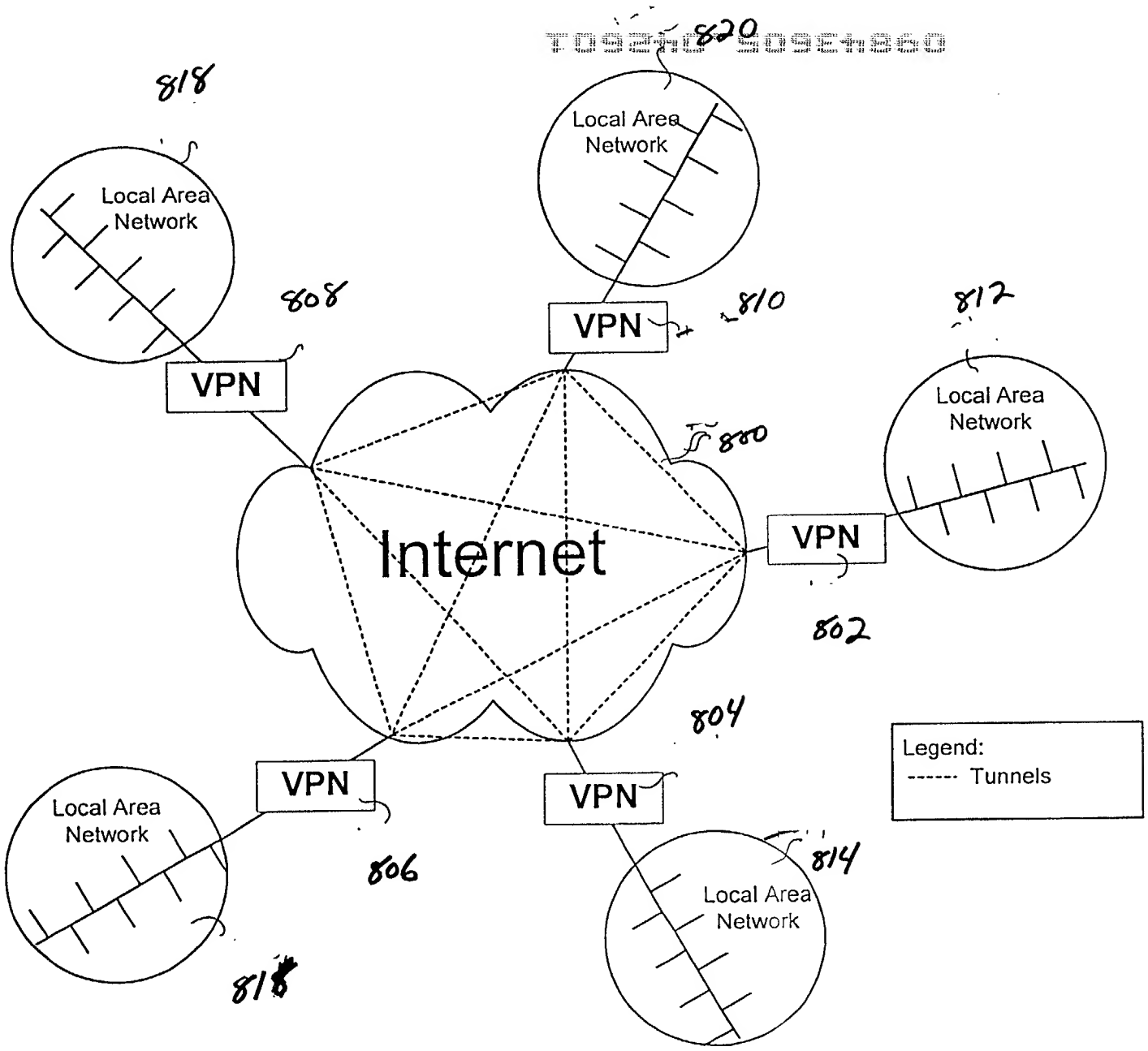

820
818
Local Area Network
808
VPN
810
VPN
812
Local Area Network
880
Internet
VPN
802
804
Legend:
------ Tunnels
VPN
VPN
Local Area Network
806
814
Local Area Network
818

Fig. 5

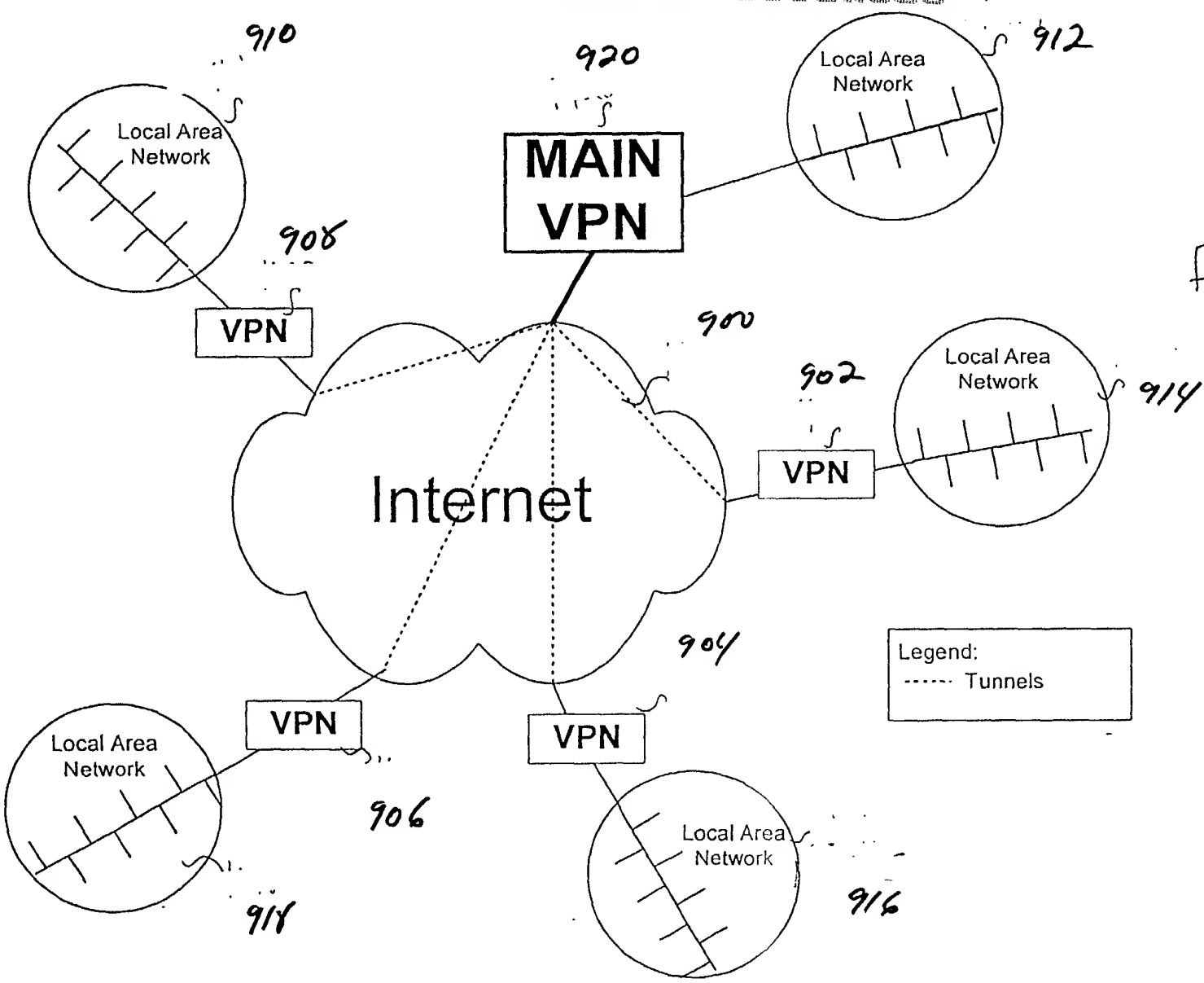

910
920
912
Local Area Network
MAIN VPN
908
VPN
900
902
Local Area Network
914
VPN
Internet
904
Legend:
Tunnels
VPN
VPN
Local Area Network
906
Local Area Network
916
918

Fig. 6

FIG 7

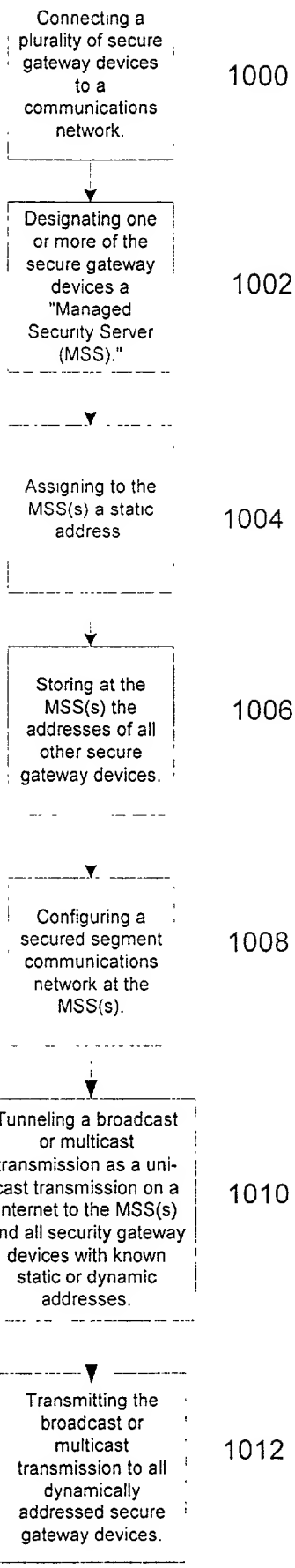

Connecting a plurality of secure gateway devices to a communications network.
1000
Designating one or more of the secure gateway devices a "Managed Security Server (MSS)."
1002
Assigning to the MSS(s) a static address
1004
Storing at the MSS(s) the addresses of all other secure gateway devices.
1006
Configuring a secured segment communications network at the MSS(s).
1008
Tunneling a broadcast or multicast transmission as a uni-cast transmission on a Internet to the MSS(s) and all security gateway devices with known static or dynamic addresses.
1010
Transmitting the broadcast or multicast transmission to all dynamically addressed secure gateway devices.
1012

FIG. 11A

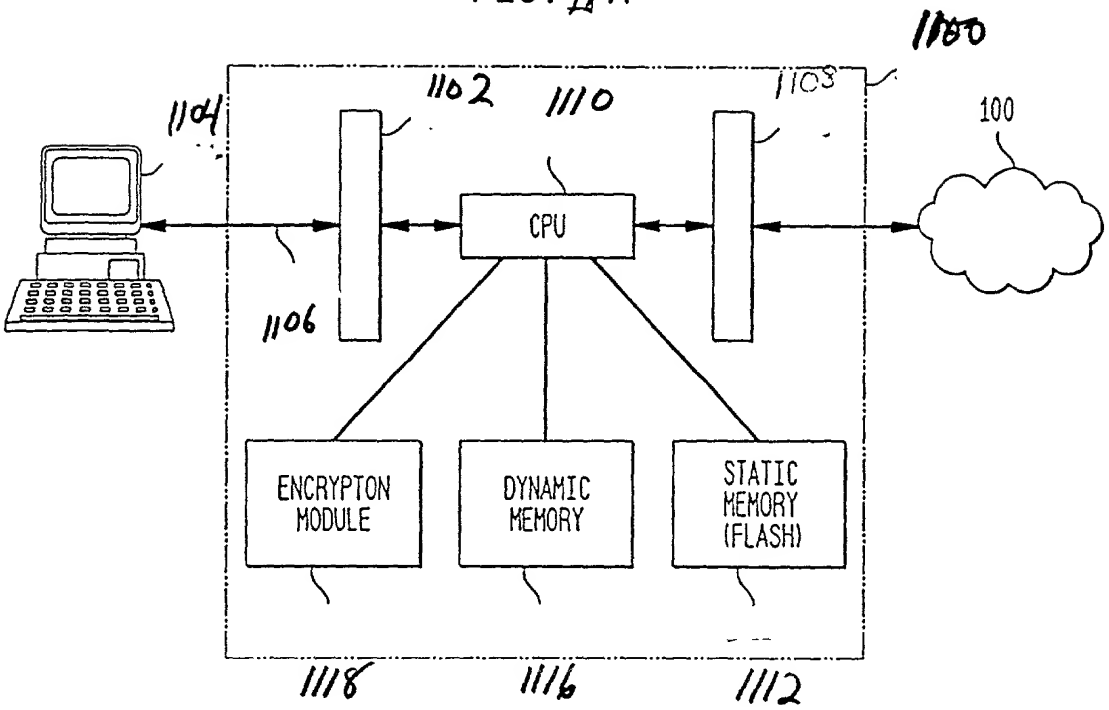
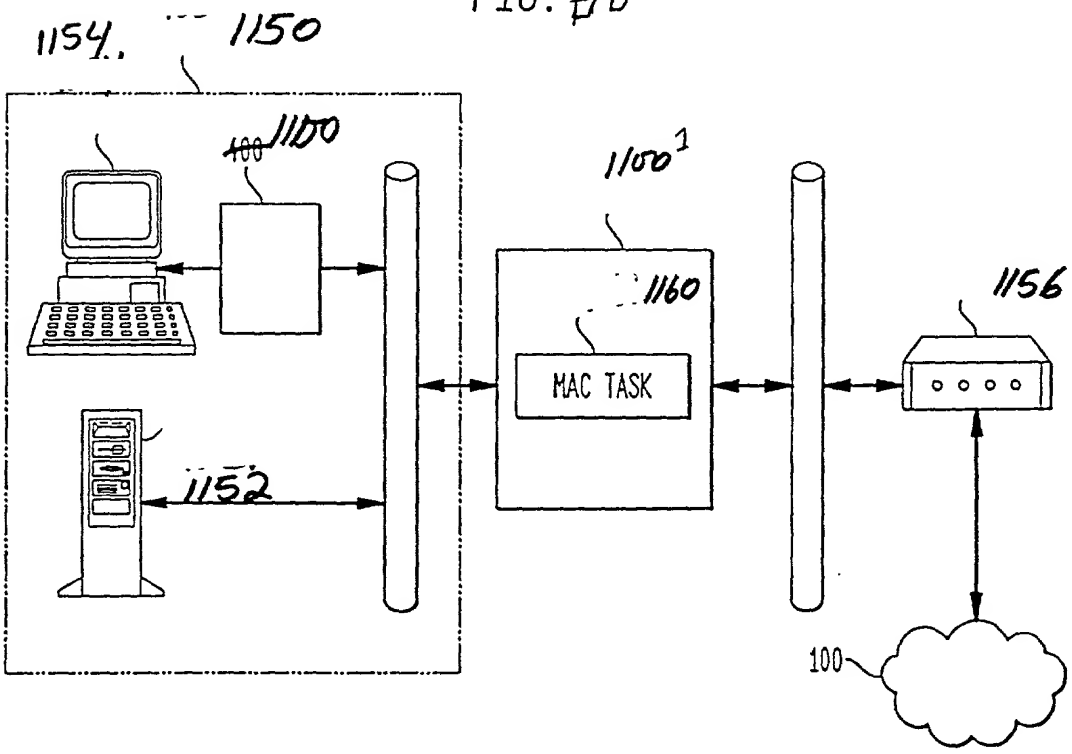


FIG. 11B



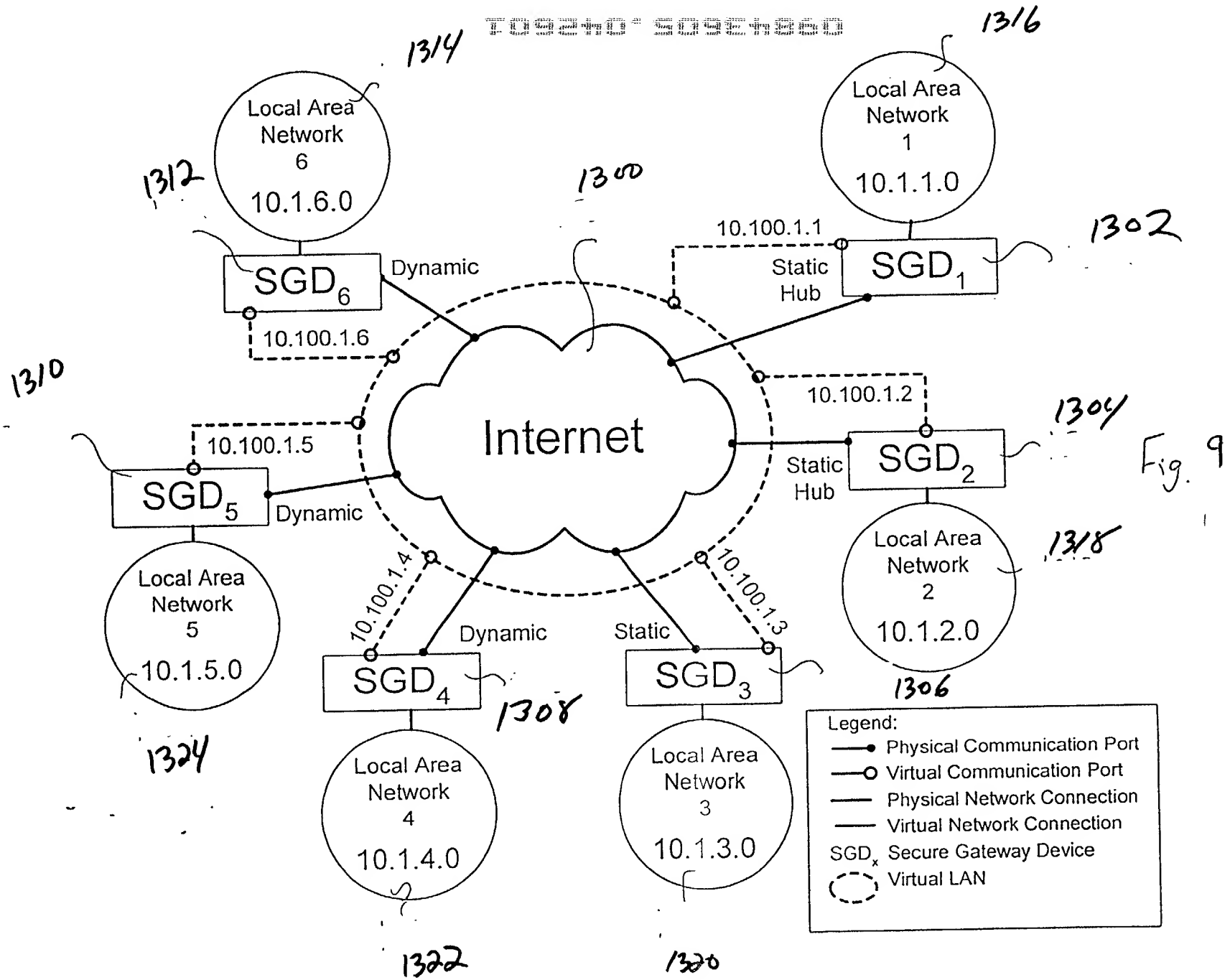

1314
1316
Local Area Network 6
10.1.6.0
Local Area Network 1
10.1.1.0
1312
1300
1302
10.100.1.1
Static Hub
SGD1
Dynamic
SGD6
10.100.1.6
1310
Internet
10.100.1.2
1304
10.100.1.5
SGD5
Dynamic
Static Hub
SGD2
Local Area Network 5
10.1.5.0
10.100.1.4
10.100.1.3
Local Area Network 2
10.1.2.0
1318
Dynamic
Static
SGD4
SGD3
1308
1306
1324
Local Area Network 4
10.1.4.0
Local Area Network 3
10.1.3.0
1322
1320
Legend:
Physical Communication Port
Virtual Communication Port
Physical Network Connection
Virtual Network Connection
SGDx Secure Gateway Device
Virtual LAN

Fig. 9

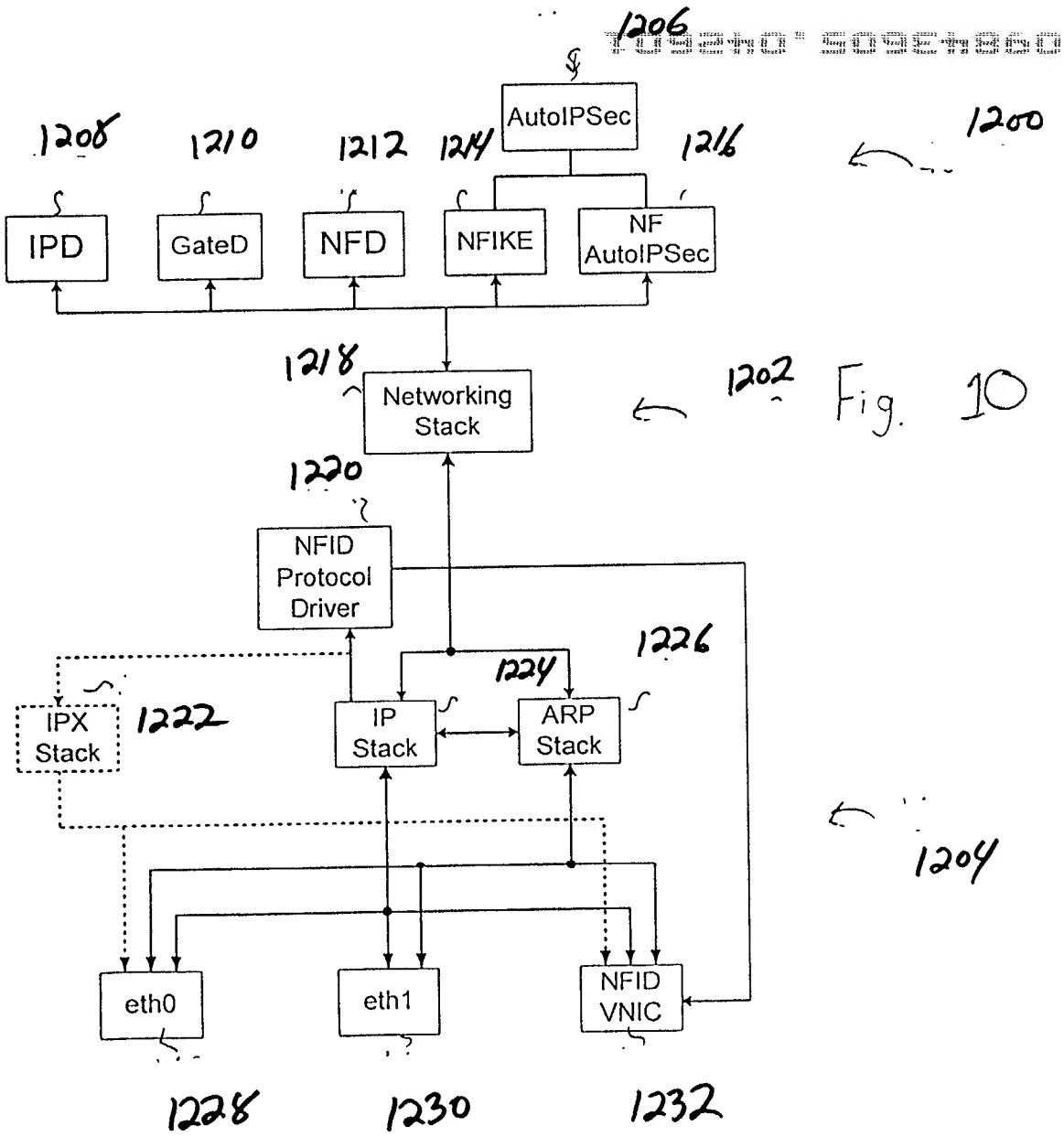

1206
AutoIPSec
1208
1210
1212
1214
1216
1200
IPD
GateD
NFD
NFIKE
NF AutoIPSec
1218
Networking Stack
1202
1220
NFID Protocol Driver
1226
1224
IPX Stack
1222
IP Stack
ARP Stack
1204
eth0
eth1
NFID VNIC
1228
1230
1232

Fig. 10